

ADHESIVE FILM AND TACKING PADS FOR PRINTED WIRINGASSEMBLIESABSTRACT OF THE DISCLOSURE

5 A self supported underfill film adhesively bonds surface mount integrated
circuit packages to a printed circuit board. The printed circuit board has conductive
traces and exposed conductive pads on the surface. Solder paste is printed on the
conductive pads, and one or more additional solder paste deposits are printed in an
area outside the conductive pads to serve as tack pads for a film adhesive. The film
10 adhesive is strategically positioned on the printed circuit board over the tack pads and
near the conductive pads, and the surface mount integrated circuit package is then
placed on the board so that the conductive pads on the package align with the
conductive pads on the board. The film adhesive softens when the package is
soldered to the board, and the film ultimately serves as an underfill to increase the
15 mechanical integrity of the solder joints.